

isc N-Channel MOSFET Transistor

2SK4204LS

FEATURES

- Drain Current : I_D= 20A@ T_C=25℃
- Drain Source Voltage
 - : V_{DSS}= 45V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 23m Ω (Max) @ V_{GS} = 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

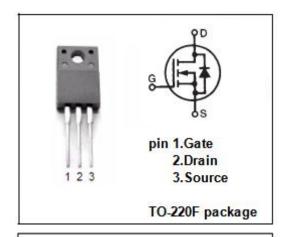
 motor drive, DC-DC converter, power switch and solenoid drive.

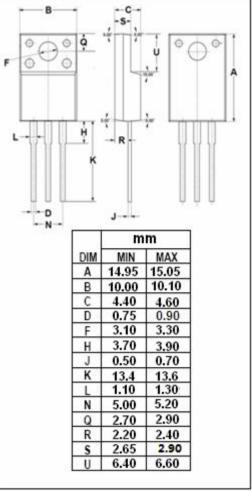
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	45	V
V _{GS}	Gate-Source Voltage-Continuous ±20		V
I _D	Drain Current-Continuous		Α
I _{DM}	Drain Current-Single Pluse	80	Α
P _D	Total Dissipation @Tc=25℃ 35		W
TJ	Max. Operating Junction Temperature	Temperature -55~150	
T _{stg}	Storage Temperature	-55~150	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.57	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 10mA	45		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1.0mA	1.2	2.6	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 10A V _{GS} = 4V; I _D = 10A		23 36	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±16V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 45V; V _{GS} = 0		1.0	uA
V _{SD}	Forward On-Voltage	I _S = 20A; V _{GS} = 0		1.2	V

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